

**AMENDMENTS TO THE CLAIMS**

Please cancel claims 1-19 and 21-31 and amend the claims as follows:

1-19. (Cancelled)

20. (Currently Amended) [[The]] A system of claim 11 comprising:  
a process chamber;  
a gas delivery system adapted to deliver a precursor from a vessel containing the  
precursor to the process chamber via a process gas produced by flowing a first carrier gas  
into the vessel and combining the first carrier gas with a second carrier gas flowing through  
a bypass around the vessel;  
a precursor monitoring apparatus disposed between the process chamber and the  
vessel, wherein the precursor monitoring apparatus has a gas analyzer to generate a  
signal indicative of a concentration of the precursor in the process gas or the signal is  
indicative of the flow rate of the precursor, wherein the gas analyzer comprisesconsists of  
an ultrasonic transducer and a mass flow meter; and  
an integral controller to receive the signal.

21-41. (Cancelled)